

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ES/12287.104	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/CA2004/000824	International filing date (day/month/year) 03/06/2004	(Earliest) Priority Date (day/month/year) 03/06/2003
Applicant <b>INFECTIO DIAGNOSTIC (I.D.I.) INC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

- b.  With regard to any nucleotide and/or amino acid sequence disclosed in the International application, see Box No. I.

2.  Certain claims were found unsearchable (See Box II).

3.  Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 3

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

- b.  none of the figures is to be published with the abstract.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/CA2004/000824

**Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)**

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

## a. type of material

a sequence listing

table(s) related to the sequence listing

## b. format of material

in written format

in computer readable form

## c. time of filing/furnishing

contained in the international application as filed

filed together with the international application in computer readable form

furnished subsequently to this Authority for the purpose of search

2.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

## INTERNATIONAL SEARCH REPORT

	PCT/CA2004/000824
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A. CLASSIFICATION OF SUBJECT MATTER	IPC 7 C12Q1/68 C07D333/32 C12N15/11
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According to International Patent Classification (IPC) or to both national classification and IPC	
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B. FIELDS SEARCHED
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Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12Q	
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched	
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Electronic data base consulted during the International search (name of data base and, where practical, search terms used)	
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EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, CHEM ABS Data, Sequence Search	
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C. DOCUMENTS CONSIDERED TO BE RELEVANT	
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/081735 A (BOISSINOT MAURICE ; INFECTIO DIAGNOSTIC INC (CA); LECLERC MARIO (CA);) 17 October 2002 (2002-10-17) the whole document ----- HO HOANG-ANH, ET AL.,: "colorimetric and fluorometric detection of nucleic acids using cationic polythiophene derivatives" ANGEW. CHEM. INT. ED., vol. 41, no. 9, 1 May 2002 (2002-05-01), pages 1548-1551, XP002313846 cited in the application the whole document ----- -/-	1-36
X		1-36

<input checked="" type="checkbox"/>	Further documents are listed in the continuation of box C.
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<input checked="" type="checkbox"/>	Patent family members are listed in annex.
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* Special categories of cited documents :	
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- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
18 January 2005	31/01/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Mueller, F

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA2004/000824

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EWBANK P C ET AL: "Amine functionalized polythiophenes: synthesis and formation of chiral, ordered structures on DNA substrates"  TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 42, no. 2, 8 January 2001 (2001-01-08), pages 155-157, XP004227724  ISSN: 0040-4039  see whole doc. esp. p.157, last par.  -----</p>	
A	<p>BOCK L C ET AL: "SELECTION OF SINGLE-STRANDED DNA MOLECULES THAT BIND AND INHIBIT HUMAN THROMBIN"  NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 355, no. 6360, 6 February 1992 (1992-02-06), pages 564-566, XP000453533  ISSN: 0028-0836  see whole doc. esp. Table 1 and Fig 2  -----</p>	
X,P	<p>HO HOANG A. &amp; LECLERC M.: "new colorimetric and fluorometric chemosensor based on a cationic polythiophene derivative for iodide-specific detection"  J. AM. CHEM. SOC., vol. 125, 22 March 2004 (2004-03-22), pages 4412-4413, XP002313847  the whole document  -----</p>	1-36
X,P	<p>HO HOANG-ANH &amp; LECLERC M.: "optical sensors based on hybrid aptamer/conjugated polymer complexes"  J. AM. CHEM. SOC., vol. 126, 15 January 2004 (2004-01-15), pages 1384-1387, XP002313848  the whole document  -----</p>	1-36
A	<p>US 5 631 146 A (SZOSTAK JACK W ET AL)  20 May 1997 (1997-05-20)  see esp. claims and seq id 82  -----</p>	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA2004/000824

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02081735	A 17-10-2002	WO 02081735 A2 CA 2442860 A1 EP 1373246 A2 JP 2004534013 T US 2004171001 A1	17-10-2002 17-10-2002 02-01-2004 11-11-2004 02-09-2004
US 5631146	A 20-05-1997	NONE	